Hanafi Yasmine Lina Amina

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Recently graduated with a Master's degree in Big Data Analytics from the University of Science and Technology Houari Boumediene (USTHB) with a specialization in artificial intelligence, particularly in computer vision applied to medical imaging. My work has focused on tasks such as image classification, segmentation and objects tracking. In addition to my experience in medical imaging, i have worked on various machine learning and data analysis projects.

Education

- **University of Science and Technology Houari Boumediene** — Algiers, Algeria
  (Master in Big Data Analytics) — *September 2023 - July 2025*
- **University of Science and Technology Houari Boumediene** — Algiers, Algeria
  (Bachelor's in Computer Science) — *September 2020 - July 2023*
- **Mohammed Hadjres High School** — Algiers, Algeria
  Baccalaureate - Mathematics — *July 2019*

Skills

- **Programming Languages**: Python, C, Java, JavaScript, PHP.
- **Frameworks**: Scikit-learn, TensorFlow, Keras, NLTK, Flask, Django, ReactJs, NodeJs, ExpressJs, ThreeJs, ReactNative, Ajax, Tailwind, Bootstrap, Socket.io.
- **Python Libraries**: Pandas, Numpy, Matplotlib, Seaborn, BeautifulSoup, OpenCV, Pygame.
- **Operating Systems and Technologies**: Linux, Windows.
- **Simulation Tools**: Cisco Packet Tracer.

Experience

- **Houari Boumediene Airport** — Algiers, Algeria
  Master's Final Year Project — *April 2025 - July 2025*
  - **Role**: I developed an intelligent luggage cart tracking system at Algiers Airport using computer vision and tracking algorithms, aiming to prevent cart loss and monitor empty cart zones in real time.
- **USTHB** — Algiers, Algeria
  Bachelor's Final Year Project — *February 2023 - July 2023*
  - **Role**: I developed a mobile application for the segmentation and classification of skin cancer (Melanoma) using data augmentation, Unet, ResNet50 and other models.

Projects

- **Skin Cancer Segmentation and Identification (Melanoma) (L3 Seminar + FYP)** : Implemented Unet for lesion segmentation, compared multiple CNN models, and developed a mobile app to easily capture and identify skin lesions. (Tech: Python, segmentation, classification, data augmentation, CNN, Flutter).
- **Pneumonia Detection from Chest X-Rays (Personal Project)** : Developed a deep learning-based system to detect pneumonia from chest X-ray images. The project involved data preprocessing, augmentation, and training convolutional neural networks (CNNs) to classify images accurately. (Tech: Python, TensorFlow, Keras, Scikit-learn, PyTorch).
- **Carotid Artery Segmentation Using U-NET (Personal project)**: Developed a deep learning model based on the U-NET architecture to segment the carotid artery from ultrasound images. This segmentation process is essential for the diagnosis and monitoring of cardiovascular diseases. U-NET's effectiveness in biomedical image analysis enabled accurate extraction of artery boundaries from complex ultrasound data.(Technologies: Python, TensorFlow, Keras, PyTorch, Scikit-learn).
- **Breast Cancer Detection (Scientific Club Project)**: During a Datathon organized by a scientific club (Micro Club) I mentored participants to identify the breast cancer. (Tech: Python, TensorFlow, Keras, Scikit-learn, PyTorch).
- **Brain Tumor Classification (Personal Project)**: Developed a Brain Tumor classification system with Convolutional Neural Network and Grad-CAM Visualization using the dataset Brain Tumor MRI. (Tech: Python, TensorFlow, Keras, Scikit-learn).
- **Brain Stroke Prediction using machine learning (Personal Project)**: Developed a Brain Stroke Prediction system Using Python and Machine Learning. (Tech: Python, TensorFlow, Keras, Scikit-learn).

- **Parkinson's Disease Detection Using Machine Learning (Personal Project)**: Developed a system for Parkinson detection using python and machine learning. (Tech: Python, Keras, Scikit-learn, svm).
- **Diabetic Retinopathy Detection (Personal Project)**: Developed a Diabetic Retinopathy Detection system using transfer learning and various deep learning architectures. (Tech: Python, TensorFlow, Keras, Scikit-learn).
- **Kidney Disease Classification (Personal Project)**: Built a machine learning system to classify chronic kidney disease using structured medical data. The project involved data preprocessing, feature selection, and training various classifiers to accurately detect kidney disease. (Tech: Python, Scikit-learn, Pandas, Matplotlib, Seaborn).
- **Luggage Cart Detection Using Computer Vision (M2 Seminar+ FYP)**: I developed an automated monitoring system using computer vision to detect luggage carts at Algiers Airport in real-time video streams. (Tech: Python, TensorFlow, Keras, Scikit-learn, PyTorch).
- **SpaceNet Objects Classification (Personal Project)** : Classified celestial objects using deep learning. (Tech: Python, TensorFlow, Keras, Scikit-learn).
- **Electricity demand prediction with XGboost (Personal Project)**: Developed a time series forecasting model to predict electricity demand in a city using synthetic historical data spanning 5 years. Engineered relevant features, trained and evaluated an XGBoost model to ensure accurate future demand prediction. (Tech: Python, XGboost, numpy, pandas, Matplotlib, Seaborn, scikit-learn).
- **AI Web Scraper using LLMs (Personal Project)**: Used LLAMA3.1 to extract targeted information from any website. (Tech: Python, BeautifulSoup, LLama3.1, Selenium, Streamlit).

Volunteer Experience

- **Micro Club** — Algiers, Algeria
  Head of Human Resources Department. — *2023-2024*
- **Micro Club** — Algiers, Algeria
  Member of Human Resources and IT Department. — *2022-2023*

Certifications and Awards

- Generative Deep Learning with TensorFlow - Coursera
- Advanced Computer Vision with TensorFlow - Coursera
- Deep Learning Specialization - Coursera
- Introduction to TensorFlow for AI, ML, and DL - Coursera
- French Language Proficiency Test 'TCF' - C2 647/690 Level
- Certificate of Event Organizer - Micro Club

Interests

- Reading / Writing
- Swimming
- Digital Painting
- Video Games